

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 (Currently amended). A method of transferring an object from a source device to a destination device over an ad hoc network comprising at least one piconet, said method comprising the steps of:

- (a) discovering ~~one or more~~ a plurality of data processing devices communicating with said destination device in a manner free from using a central server over a communication channel of said ad hoc network;
- (b) identifying a discovered data processing device that facilitates a remotely directed search for a data object in a manner free from using a central server;
- (c) using an identified data processing device to search for said object on discovered said ~~one or more~~ plurality of data processing devices over a communication channel of said ad hoc network wherein said identified data processing device is free from being a central server;
- (d) selecting a discovered data processing device that is a location of said object as said source device; and
- (e) transferring said object from said source device to said destination device over said communication channel.

2 (Original). The method of claim 1 wherein the step of discovering a data processing device communicating with said destination device over said communication channel comprises the steps of:

- (a) transmitting a paging message over said communication channel; and
- (b) including an address of a device responding to said paging message in a device list.

3 (Previously presented). The method of claim 1 wherein the step of identifying a discovered data processing device that facilitates a remotely directed search for a data object comprises the steps of:

- (a) transmitting an object search and transfer service query to a discovered data processing device; and
- (b) including an address of data processing device responding to said object search and transfer query in a list of devices facilitating a remotely directed search for and transfer of a data object.

4 (Previously presented). The method of claim 1 wherein the step of identifying a discovered data processing device that facilitates a remotely directed search for a data object comprises the steps of:

- (a) transmitting an object search and transfer service query to a discovered data processing device;
- (b) including an address of a data processing device responding to said object search and transfer service query in a list of devices facilitating a remotely directed search for and transfer of a data object, and
- (c) including in said list of devices facilitating a remotely directed search for and transfer of a data object an address of another device identified as a device facilitating a remotely directed search for and transfer of a data object in said response to said object search and transfer service query by said device responding to said query.

5 (Previously presented). The method of claim 1 wherein the step of using an identified data processing device for said object comprises the steps of:

- (a) transmitting a search request including a user specified search parameter to a data processing device identified as facilitating a search for and transfer of a data object; and
- (b) receiving a response to said search request from a data processing device identifying a data object having a relation to said search parameter.

6 (Original). The method of claim 5 further comprising the step of displaying to a user an object identifier of said data object identified in said response.

7 (Original). The method of claim 5 wherein said response comprises an object name associated with a data object having a relation to said search parameter.

8 (Original). The method of claim 5 wherein said response includes a unique object identifier associated with a data object having a relation to said search parameter.

9 (Original). The method of claim 5 wherein said response comprises an address of another device on which said data object is located.

10 (Previously presented). The method of claim 1 wherein the step of selecting a discovered data processing device that is a location of said object as said source device comprises the steps of:

- (a) transmitting a transfer availability query to a device that is a location of said object and that facilitates data object transfer;
- (b) receiving a response to said transfer availability query, said response including a measure of an availability of said device to transfer said object ; and

- (c) selecting as said source device a responding device optimizing said measure of availability.

11 (Original). The method of claim 10 wherein said measure of availability comprises a measure of data transfer throughput.

12 (Original). The method of claim 1 wherein the step of transferring said object from said source device to said destination device over said communication channel comprises the steps of:

- (a) determining an availability of said source device to transfer a data object;
- (b) transmitting to said source device a request to transfer said object; and
- (c) receiving said destination device data of said object transferred over said communication channel.

13 (Original). The method of claim 12 wherein the step of receiving at said destination device data of said object transferred over said communication channel comprises the steps of:

- (a) receiving a portion of said data of said object and an identifier of said portion of said data; and
- (b) preserving said identifier of said portion of said data

14 (Original). The method of claim 1 further comprising the steps of:

- (a) identifying a portion of said object not transferred to said destination device from said source device;
- (b) identifying a second source device having a second portion of said object that has not been transferred to said destination device; and

- (c) requesting transfer of said second portion of said object from said second source device to said destination device.

15 (Original). The method of claim 14 wherein the step of identifying a portion of said object not transferred to said destination device from said source device comprises the steps of:

- (a) including with data of said object a measure of quantity of data comprising said object; and
- (b) comparing a measure of said data received by said destination device to said measure of said quantity of data comprising said object.

16 (Original). The measure of claim 15 wherein the step of including with data of said object a measure of a quantity of data comprising said object comprises the step of including with an object a total number of bytes of data for an object comprises an ordered sequence of said bytes of data.

17 (Currently amended). A method of transferring an object from a source device to a destination device over an ad hoc network comprising at least one piconet, said method comprising the steps of:

- (a) transmitting a page message on a communication channel of said ad hoc network, wherein said ad hoc network is free from including a central server;
- (b) including an address of a device responding to said page message in a device list;
- (c) transmitting an object search and transfer service query to a device identified in said device list;
- (d) including an address of a data processing device responding to said object search and transfer service query in a list of devices facilitating a search and transfer of a data object;

- (e) transmitting a search request including a user specified search parameter to a data processing device identified in said list of devices facilitating a search for and transfer of a data object, said identified data processing device capable of searching for said object on responding said devices over a communication channel of said ad hoc network;
- (f) receiving a response to said search request from a data processing device identifying a data object having a relation to said search parameter;
- (g) transmitting a transfer availability query to a device that is a location of said object identified by a user;
- (h) receiving a response to said transfer query including a measure of availability of a device to transfer said object;
- (i) selecting as said source device a responding device maximizing said measure of availability;
- (j) transmitting to said source device a request to transfer said object; and
- (k) receiving said destination device data of said object transferred over said communication channel.

18 (Original). The method of claim 17 further comprising the step of displaying to a user an object identifier of said data object identified in said response to said search request.

19 (Original). The method of claim 17 wherein said response to said search request comprises an object name associated with a data object having a relation to said search parameter.

20 (Original). The method of claim 17 wherein said response to said search request includes a unique object identifier associated with a data object having a relation to said parameter.

21 (Original). The method of claim 17 wherein said response to said search request comprises an address of another device on which said data object is located.

22 (Original). The method of claim 17 wherein said measure of availability included in said response to said transfer query comprises a measure of data transfer throughput.

23 (Original). The method of claim 17 wherein the step of receiving at said destination device data of said object transferred over said communication channel comprises the steps of:

- (a) receiving a portion of said data of said object and an identifier of said portion of said data; and
- (b) preserving said identifier of said portion of said data

24 (Original). The method of claim 17 further comprising the steps of:

- (a) identifying a portion of said object not transferred to said destination device from said source device;
- (b) identifying another source device having another portion of said object that has not been transferred to said destination device; and
- (c) requesting transfer of said another portion of said object from said another source device to said destination device.

25 (Previously presented). The method of claim 24 wherein the step of identifying a portion of said object not transferred to said destination device from said source device comprises the steps of:

- (a) including with data of said object a measure of quantity of data comprising said object; and
- (b) comparing a measure of said data received by said destination device to said measure of said quantity of data comprising said object.

26 (Original). The method of claim 25 wherein the step of including with data of said object a measure of quantity of data comprising said object comprises the step of including with an object a total number of bytes of data for an object comprises an ordered sequence of said bytes of data.